HT20 digital Tesla meter

User's Manual

Product Number: 01050007

Shanghai Heng Tong Magnetoelectricity Co.,Ltd.

1、Characteristic

This instrument is convenient for operator to measure magnetic induction of DC magnetic field accurately. It is characterized by its wide range, clear display of LCD, and indefectible structure of sensor. A piece of 9V dry battery, which acts as its power supply, can serve for 4 hours continuously. Meanwhile, regulated power supply (enclosed) is available to 220VAC.

2、Application

Measurement of surficial magnetic field of magnetic material and special DC magnetic field; hall sensor serves either in vertical or horizontal according to clients' requirement.

3、Technical Parameters

Range：0~200mT~2000mT

Fundamental Error：±2.0% Reading±2 characters

Resolution：0.1m T

Null Shift：Less than 3 characters within 30min

Ambient Temperature：5℃~40℃

Relative Humidity：20%~80%（No Concretion）

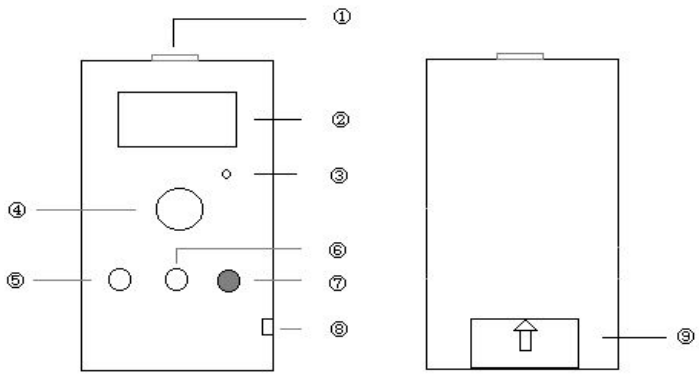
Power Supply：A 9V dry battery

Size：160mm×88mm×36mm

Weight：300g

Display Mode：$3\frac{1}{2}$LCD

4、Parts and functions



①**Sensor Socket**：connect sensor and instrument

②**LCD**：display

③**Calibration Rheostat**：adjust the current of sensor

④**Zero Rheostat**：keep the sensor far away from magnetic field and adjust Zero Rheostat to display “0”

⑤**Adjustment/Measurement**：press it to switch the value from data of measurement to current of sensor

⑥**Range Select**：press it to switch from 200m to 2000mT

⑦**Power Switch**: press it to connect

⑧**Power Socket**：to connect 220VAC

⑨**Battery Compartment**：to place 9V battery

5、Operational Procedure

1、Close the power of the instrument, and keep the location of Range Select.

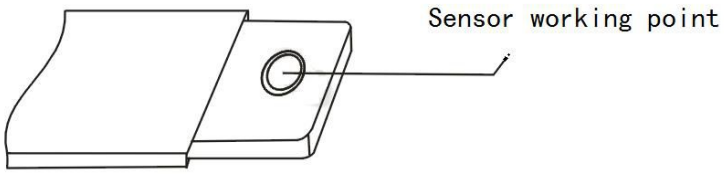
2、Fit dry battery in the instrument.

3、Open the power, and adjust “Zero Rheostat” to display “000”.

4、Select range according to magnetic induction which is measured. Then put the instrument in measured field, and make sure the effectible side of sensor up. Keep the side, which is marked by dot hollow in the head of sensor, close to the measured magnet, and magnetic induction of this point is displayed. The value will be positive when the marked side up and this point is North Pole, otherwise South Pole.

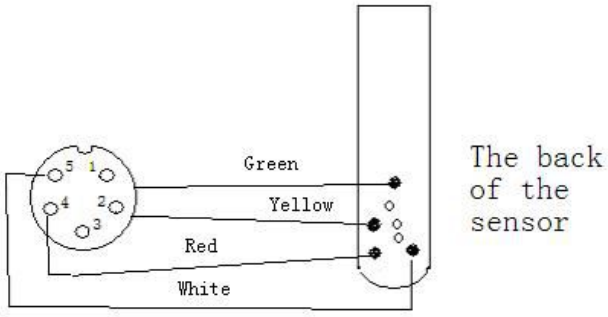
5、You'd better take dry battery out to prolong the using time of the battery after measurement.

6、Maintenance and Attentions



1、 Trouble may flare up in the sensor or tie-lines, if there is no reading or display "1" in measurement. If there is something wrong with tie-lines, connect them as below:

HT20 Sensor wiring diagram



2、Make sure the sensor CAN NOT endure force, bump, and extrusion.

3、Keep the sensor far away from magnetic field when calibrating, or it will cause measurement error.

4、Do not use it in unsuitable condition.

7、Packaged

1、HT20 Portable Digital Tesla Meter : 1

2、Application instruction : 1

3、Qualification certificate : 1

4、Sensor : 1

5、Dry battery : 1

6、External power supply: 1